March 16, 2012

Duke Energy
Miami Fort Generating Station
11021 Brower Road
North Bend, OH 45052

Attention: Ms. Tara Thomas
Environmental Coordinator

Re: Results – **March 2012**
Low-Level Mercury Sampling
Miami Fort Generating Station
North Bend, Ohio

In accordance with your request, URS prepared the following letter report transmitting low-level mercury test results for samples collected at the Miami Fort Generating Station located in North Bend, Ohio.

The scope of work involved the sampling of intake and discharge waters from the following sources and analysis of those samples for low-level mercury.

1. River Intake
2. Station 601 (WWT Influent)
   [Samples were collected at this station one detention time (approximately 14 hours as specified by Duke Energy) before samples collected at Outfall 608]
3. Outfall 608 (WWT Effluent)
   [Samples were collected at this outfall one detention time (approximately 14 hours as specified by Duke Energy) after samples collected at station 601]
4. Outfall 002 (Pond B Discharge)

Each sample was collected following the required Method 1669: *Sampling Ambient Water for Determination of Trace Metals at EPA Water Quality Criteria Levels* (Sampling Method) and analyzed by Method 1631. At the request of Duke Energy, a dissolved low-level mercury sample was collected by Method 1669 from Outfall 608 and analyzed by Method 1631. The collected dissolved sample was filtered at the laboratory utilizing 0.45 micron filtration. Also at the request of Duke Energy, total metal mercury sample aliquots (preserved) from Station 601 (Units 7 and 8) were used to have the laboratory pipet off and prepare the supernatant layer of the samples (leaving behind as much of the settled solids as possible) for analysis by Method 7470A.

Field staff from URS' Cincinnati office conducted the sampling and TestAmerica Laboratories Inc. located in North Canton, Ohio performed the analytical procedures. The analytical procedures included the analyses of a collected sample and duplicate sample (duplicates

URS Corporation
36 East 7th Street, Suite 2300
Cincinnati, Ohio 45202
Tel: 513.651.3440
Fax: 1.877.660.7720 (toll free)

(duplicates collected at Outfall 608 and Outfall 002), field blank (field blanks collected at the River Intake, Outfall 608, and Outfall 002), and trip blank.

The results from the **March 1 and 2, 2012** sampling event are presented in the attached Table 1. A copy of the laboratory report is enclosed with this letter.

--ooOoo--

URS is pleased to provide continued assistance to Duke Energy in the execution of their environmental monitoring requirements. If there are any questions regarding the content of this report, please do not hesitate to contact the undersigned.

Sincerely,

URS Corporation

Michael A. Wagner
Project Manager

Dennis P. Connair, C.P.G.
Principal

MAW/DPC/Duke Energy-MFS LL Hg 2012
Job No. 14950516

TABLE 1

ANALYTICAL RESULTS
LOW-LEVEL MERCURY
RIVER INTAKE, STATION 601, OUTFALL 608, AND OUTFALL 002 (POND B)

DUKE ENERGY - MIAMI FORT STATION
NORTH BEND, OHIO

	Date Sampled / Results (ng/L, parts per trillion)					
Sample ID	**1/3-4/2012**	**2/2-3/2012**	**3/1-2/2012**	**4/x/2012**	**5/x/2012**	**6/x/2012**
River Intake	7.9	6.1	3.9			
Station 601 (7)	360,000	100,000	1,300,000			
Station 601 (7)*	570	6,000	54,000			
Station 601 (7)* [duplicate]	200	Not Collected	55,000			
Station 601 (8)	210,000	68,000	830,000			
Station 601 (8)*	420	5,300	110,000			
Station 601 (8)*[duplicate]	Not Collected	3,500	Not Collected			
Outfall 608	60	89	48			
Outfall 608 [duplicate]	65	85	49			
Outfall 608 [dissolved, 0.45 micron]	2.9	26	1.6 H			
APB-002	3.2	3.7	2.9			
APB-002 [duplicate]	3.3	3.5	3.6			
Field Blank (RI-FB)	<0.50	<0.50	<0.50			
Field Blank (WWT-FB)	<0.50	<0.50	<0.50			
Field Blank (AP-FB)	<0.50	<0.50	<0.50			
Trip Blank	<0.50	<0.50	<0.50			

Samples collected by URS
Sampling times are noted within the associated laboratory report for each collected sample
Samples analyzed by TestAmerica of North Canton, Ohio
* = Total mercury analysis utilizing Method 7470A [results converted from ug/L (parts per billion) to ng/L]. The aqueous layer of the sample was pipetted off and prepared, with care to leave behind as much of the settled solids as possible.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-8931-1
Client Project/Site: Miami Fort LL Hg 2012 - J12030189
Revision: 1

For:
Duke Energy Corporation
139 East Fourth Street
ex 510
Cincinnati, Ohio 45202

Attn: Ms. Sue Wallace

Denise Pohl

Authorized for release by:
3/22/2012 10:58:55 AM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Qualifiers

Metals

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected.
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-8931-1

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Duke Energy Corporation

Project: Miami Fort LL Hg 2012 - J12030189

Report Number: 240-8931-1

Revised

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

Revision 03/22/2012: Includes addition to Case Narrative for Total Mercury.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 03/03/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 9.7 C.

DISSOLVED LOW LEVEL MERCURY

Sample 608 WWT DISS (240-8931-11) was analyzed for dissolved low level mercury in accordance with EPA Method 1631E. The samples were prepared on 03/07/2012 and analyzed on 03/08/2012.

Method 1631E: The following sample was received after filtration holding time expired: 608 WWT DISS.

No difficulties were encountered during the Low Level Mercury analysis.

All quality control parameters were within the acceptance limits.

Job ID: 240-8931-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

TOTAL MERCURY

Samples 601 (7) WWT TOT (240-8931-2), 601 (7) WWT TOT DUP (240-8931-3) and 601 (8) WWT TOT (240-8931-5) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 03/07/2012 and analyzed on 03/12/2012.

Samples 601 (7) WWT TOT (240-8931-2)[10X], 601 (7) WWT TOT DUP (240-8931-3)[10X] and 601 (8) WWT TOT (240-8931-5)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method 7470A: Per client instructions, the aqueous layer of the sample was pipetted off and prepared for samples 601 (7) WWT TOT, 601 (7) WWT TOT DUP, 601 (8) WWT TOT with care to leave behind as much of the settled solids as possible.

No other difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

LOW LEVEL MERCURY

Samples 601 (7) WWT (240-8931-1), 601 (8) WWT (240-8931-4), RI FB (240-8931-6), RI (240-8931-7), 608 WWT FB (240-8931-8), 608 WWT (240-8931-9), 608 WWT DUP (240-8931-10), OUTFALL 002 FB (240-8931-12), OUTFALL 002 (240-8931-13), OUTFALL 002 DUP (240-8931-14) and TRIP BLANK (240-8931-15) were analyzed for Low Level Mercury in accordance with EPA Method 1631E. The samples were prepared on 03/05/2012 and analyzed on 03/09/2012.

Mercury failed the recovery criteria low for the MSD of sample OUTFALL 002 DUPMSD (240-8931-14) in batch 240-36537.

Mercury failed the recovery criteria high for the MS of sample 240-8973-3 in batch 240-36344.

Refer to the QC report for details.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Samples 601 (7) WWT (240-8931-1)[400000X], 601 (8) WWT (240-8931-4)[200000X], 608 WWT (240-8931-9)[20X] and 608 WWT DUP (240-8931-10)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Low Level Mercury analyses.

All other quality control parameters were within the acceptance limits.

Method Summary

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	TAL NC
7470A	Mercury (CVAA)	SW846	TAL NC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-8931-1	601 (7) WWT	Water	03/01/12 17:30	03/03/12 09:10
240-8931-2	601 (7) WWT TOT	Water	03/01/12 17:33	03/03/12 09:10
240-8931-3	601 (7) WWT TOT DUP	Water	03/01/12 17:35	03/03/12 09:10
240-8931-4	601 (8) WWT	Water	03/01/12 17:40	03/03/12 09:10
240-8931-5	601 (8) WWT TOT	Water	03/01/12 17:45	03/03/12 09:10
240-8931-6	RI FB	Water	03/01/12 17:50	03/03/12 09:10
240-8931-7	RI	Water	03/01/12 17:55	03/03/12 09:10
240-8931-8	608 WWT FB	Water	03/02/12 08:20	03/03/12 09:10
240-8931-9	608 WWT	Water	03/02/12 08:25	03/03/12 09:10
240-8931-10	608 WWT DUP	Water	03/02/12 08:30	03/03/12 09:10
240-8931-11	608 WWT DISS	Water	03/02/12 08:35	03/03/12 09:10
240-8931-12	OUTFALL 002 FB	Water	03/02/12 08:50	03/03/12 09:10
240-8931-13	OUTFALL 002	Water	03/02/12 08:55	03/03/12 09:10
240-8931-14	OUTFALL 002 DUP	Water	03/02/12 09:00	03/03/12 09:10
240-8931-15	TRIP BLANK	Water	03/02/12 00:00	03/03/12 09:10

Detection Summary

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: 601 (7) WWT — Lab Sample ID: 240-8931-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	1300000		200000		ng/L	400000		1631E	Total/NA

Client Sample ID: 601 (7) WWT TOT — Lab Sample ID: 240-8931-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	54		2.0		ug/L	10		7470A	Total/NA

Client Sample ID: 601 (7) WWT TOT DUP — Lab Sample ID: 240-8931-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	55		2.0		ug/L	10		7470A	Total/NA

Client Sample ID: 601 (8) WWT — Lab Sample ID: 240-8931-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	830000		100000		ng/L	200000		1631E	Total/NA

Client Sample ID: 601 (8) WWT TOT — Lab Sample ID: 240-8931-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	110		4.0		ug/L	20		7470A	Total/NA

Client Sample ID: RI FB — Lab Sample ID: 240-8931-6

No Detections

Client Sample ID: RI — Lab Sample ID: 240-8931-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	3.9		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: 608 WWT FB — Lab Sample ID: 240-8931-8

No Detections

Client Sample ID: 608 WWT — Lab Sample ID: 240-8931-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	49		10		ng/L	20		1631E	Total/NA

Client Sample ID: 608 WWT DUP — Lab Sample ID: 240-8931-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	49		10		ng/L	20		1631E	Total/NA

Client Sample ID: 608 WWT DISS — Lab Sample ID: 240-8931-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	1.6	H	0.50		ng/L	1		1631E	Dissolved

Client Sample ID: OUTFALL 002 FB — Lab Sample ID: 240-8931-12

No Detections

Detection Summary

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: OUTFALL 002 — Lab Sample ID: 240-8931-13

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	2.9		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: OUTFALL 002 DUP — Lab Sample ID: 240-8931-14

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	3.6		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-8931-15

No Detections

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: 601 (7) WWT
Date Collected: 03/01/12 17:30
Date Received: 03/03/12 09:10

Lab Sample ID: 240-8931-1
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1300000		200000		ng/L		03/05/12 16:00	03/09/12 15:01	400000

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: 601 (7) WWT TOT
Date Collected: 03/01/12 17:33
Date Received: 03/03/12 09:10

Lab Sample ID: 240-8931-2
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	54		2.0		ug/L		03/07/12 14:00	03/12/12 15:21	10

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: 601 (7) WWT TOT DUP
Date Collected: 03/01/12 17:35
Date Received: 03/03/12 09:10

Lab Sample ID: 240-8931-3
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	55		2.0		ug/L		03/07/12 14:00	03/12/12 15:23	10

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: 601 (8) WWT
Date Collected: 03/01/12 17:40
Date Received: 03/03/12 09:10

Lab Sample ID: 240-8931-4
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	830000		100000		ng/L		03/05/12 16:00	03/09/12 15:10	200000

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: 601 (8) WWT TOT
Date Collected: 03/01/12 17:45
Date Received: 03/03/12 09:10

Lab Sample ID: 240-8931-5
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	110		4.0		ug/L		03/07/12 14:00	03/12/12 15:25	20

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: RI FB
Date Collected: 03/01/12 17:50
Date Received: 03/03/12 09:10

Lab Sample ID: 240-8931-6
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		03/05/12 16:00	03/09/12 17:18	1

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: RI
Date Collected: 03/01/12 17:55
Date Received: 03/03/12 09:10

Lab Sample ID: 240-8931-7
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.9		0.50		ng/L		03/05/12 16:00	03/09/12 15:18	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: 608 WWT FB
Date Collected: 03/02/12 08:20
Date Received: 03/03/12 09:10

Lab Sample ID: 240-8931-8
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		03/05/12 16:00	03/09/12 17:26	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: 608 WWT
Date Collected: 03/02/12 08:25
Date Received: 03/03/12 09:10

Lab Sample ID: 240-8931-9
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	49		10		ng/L		03/05/12 16:00	03/09/12 15:27	20

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: 608 WWT DUP
Date Collected: 03/02/12 08:30
Date Received: 03/03/12 09:10

Lab Sample ID: 240-8931-10
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	49		10		ng/L		03/05/12 16:00	03/09/12 15:35	20

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: 608 WWT DISS
Date Collected: 03/02/12 08:35
Date Received: 03/03/12 09:10

Lab Sample ID: 240-8931-11
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.6	H	0.50		ng/L		03/07/12 13:00	03/08/12 15:43	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: OUTFALL 002 FB
Date Collected: 03/02/12 08:50
Date Received: 03/03/12 09:10

Lab Sample ID: 240-8931-12
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		03/05/12 16:00	03/09/12 17:35	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: OUTFALL 002
Date Collected: 03/02/12 08:55
Date Received: 03/03/12 09:10

Lab Sample ID: 240-8931-13
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.9		0.50		ng/L		03/05/12 16:00	03/09/12 15:44	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: OUTFALL 002 DUP
Date Collected: 03/02/12 09:00
Date Received: 03/03/12 09:10

Lab Sample ID: 240-8931-14
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.6		0.50		ng/L		03/05/12 16:00	03/09/12 15:52	1

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: TRIP BLANK
Date Collected: 03/02/12 00:00
Date Received: 03/03/12 09:10

Lab Sample ID: 240-8931-15
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		03/05/12 16:00	03/09/12 17:43	1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 240-35871/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 36537 — **Prep Batch: 35871**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		03/05/12 16:00	03/09/12 18:18	1

Lab Sample ID: LCS 240-35871/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 36537 — **Prep Batch: 35871**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	4.10		ng/L		82	77 - 123		

Lab Sample ID: 240-8931-14 MS — **Client Sample ID: OUTFALL 002 DUP**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 36537 — **Prep Batch: 35871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	3.6		5.00	7.16		ng/L		71	71 - 125		

Lab Sample ID: 240-8931-14 MSD — **Client Sample ID: OUTFALL 002 DUP**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 36537 — **Prep Batch: 35871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	3.6		5.00	7.11	F	ng/L		70	71 - 125	1	24

Lab Sample ID: MB 240-36108/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 36344 — **Prep Batch: 36108**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		03/07/12 13:00	03/08/12 16:34	1

Lab Sample ID: LCS 240-36108/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 36344 — **Prep Batch: 36108**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	5.52		ng/L		110	77 - 123		

Lab Sample ID: PB 240-36109/1-B PB — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 36344 — **Prep Batch: 36108**

Analyte	PB Result	PB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		03/07/12 13:00	03/08/12 16:09	1

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-36093/1-A
Matrix: Water
Analysis Batch: 36515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36093

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20		ug/L		03/07/12 14:00	03/12/12 15:06	1

Lab Sample ID: LCS 240-36093/2-A
Matrix: Water
Analysis Batch: 36515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36093

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	4.87		ug/L		97	81 - 123		

Metals

Prep Batch: 35871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-8931-1	601 (7) WWT	Total/NA	Water	1631E	
240-8931-4	601 (8) WWT	Total/NA	Water	1631E	
240-8931-6	RI FB	Total/NA	Water	1631E	
240-8931-7	RI	Total/NA	Water	1631E	
240-8931-8	608 WWT FB	Total/NA	Water	1631E	
240-8931-9	608 WWT	Total/NA	Water	1631E	
240-8931-10	608 WWT DUP	Total/NA	Water	1631E	
240-8931-12	OUTFALL 002 FB	Total/NA	Water	1631E	
240-8931-13	OUTFALL 002	Total/NA	Water	1631E	
240-8931-14	OUTFALL 002 DUP	Total/NA	Water	1631E	
240-8931-14 MS	OUTFALL 002 DUP	Total/NA	Water	1631E	
240-8931-14 MSD	OUTFALL 002 DUP	Total/NA	Water	1631E	
240-8931-15	TRIP BLANK	Total/NA	Water	1631E	
LCS 240-35871/2-A	Lab Control Sample	Total/NA	Water	1631E	
MB 240-35871/1-A	Method Blank	Total/NA	Water	1631E	

Prep Batch: 36093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-8931-2	601 (7) WWT TOT	Total/NA	Water	7470A	
240-8931-3	601 (7) WWT TOT DUP	Total/NA	Water	7470A	
240-8931-5	601 (8) WWT TOT	Total/NA	Water	7470A	
LCS 240-36093/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-36093/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 36108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-8931-11	608 WWT DISS	Dissolved	Water	1631E	
LCS 240-36108/2-A	Lab Control Sample	Total/NA	Water	1631E	
MB 240-36108/1-A	Method Blank	Total/NA	Water	1631E	
PB 240-36109/1-B PB	Method Blank	Dissolved	Water	1631E	

Analysis Batch: 36344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-8931-11	608 WWT DISS	Dissolved	Water	1631E	36108
LCS 240-36108/2-A	Lab Control Sample	Total/NA	Water	1631E	36108
MB 240-36108/1-A	Method Blank	Total/NA	Water	1631E	36108
PB 240-36109/1-B PB	Method Blank	Dissolved	Water	1631E	36108

Analysis Batch: 36515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-8931-2	601 (7) WWT TOT	Total/NA	Water	7470A	36093
240-8931-3	601 (7) WWT TOT DUP	Total/NA	Water	7470A	36093
240-8931-5	601 (8) WWT TOT	Total/NA	Water	7470A	36093
LCS 240-36093/2-A	Lab Control Sample	Total/NA	Water	7470A	36093
MB 240-36093/1-A	Method Blank	Total/NA	Water	7470A	36093

Analysis Batch: 36537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-8931-1	601 (7) WWT	Total/NA	Water	1631E	35871
240-8931-4	601 (8) WWT	Total/NA	Water	1631E	35871
240-8931-6	RI FB	Total/NA	Water	1631E	35871
240-8931-7	RI	Total/NA	Water	1631E	35871

Metals (Continued)

Analysis Batch: 36537 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-8931-8	608 WWT FB	Total/NA	Water	1631E	35871
240-8931-9	608 WWT	Total/NA	Water	1631E	35871
240-8931-10	608 WWT DUP	Total/NA	Water	1631E	35871
240-8931-12	OUTFALL 002 FB	Total/NA	Water	1631E	35871
240-8931-13	OUTFALL 002	Total/NA	Water	1631E	35871
240-8931-14	OUTFALL 002 DUP	Total/NA	Water	1631E	35871
240-8931-14 MS	OUTFALL 002 DUP	Total/NA	Water	1631E	35871
240-8931-14 MSD	OUTFALL 002 DUP	Total/NA	Water	1631E	35871
240-8931-15	TRIP BLANK	Total/NA	Water	1631E	35871
LCS 240-35871/2-A	Lab Control Sample	Total/NA	Water	1631E	35871
MB 240-35871/1-A	Method Blank	Total/NA	Water	1631E	35871

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: 601 (7) WWT
Lab Sample ID: 240-8931-1
Date Collected: 03/01/12 17:30
Matrix: Water
Date Received: 03/03/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			35871	03/05/12 16:00	LM	TAL NC
Total/NA	Analysis	1631E		400000	36537	03/09/12 15:01	CJ	TAL NC

Client Sample ID: 601 (7) WWT TOT
Lab Sample ID: 240-8931-2
Date Collected: 03/01/12 17:33
Matrix: Water
Date Received: 03/03/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			36093	03/07/12 14:00	LM	TAL NC
Total/NA	Analysis	7470A		10	36515	03/12/12 15:21	AS	TAL NC

Client Sample ID: 601 (7) WWT TOT DUP
Lab Sample ID: 240-8931-3
Date Collected: 03/01/12 17:35
Matrix: Water
Date Received: 03/03/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			36093	03/07/12 14:00	LM	TAL NC
Total/NA	Analysis	7470A		10	36515	03/12/12 15:23	AS	TAL NC

Client Sample ID: 601 (8) WWT
Lab Sample ID: 240-8931-4
Date Collected: 03/01/12 17:40
Matrix: Water
Date Received: 03/03/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			35871	03/05/12 16:00	LM	TAL NC
Total/NA	Analysis	1631E		200000	36537	03/09/12 15:10	CJ	TAL NC

Client Sample ID: 601 (8) WWT TOT
Lab Sample ID: 240-8931-5
Date Collected: 03/01/12 17:45
Matrix: Water
Date Received: 03/03/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			36093	03/07/12 14:00	LM	TAL NC
Total/NA	Analysis	7470A		20	36515	03/12/12 15:25	AS	TAL NC

Client Sample ID: RI FB
Lab Sample ID: 240-8931-6
Date Collected: 03/01/12 17:50
Matrix: Water
Date Received: 03/03/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			35871	03/05/12 16:00	LM	TAL NC
Total/NA	Analysis	1631E		1	36537	03/09/12 17:18	CJ	TAL NC

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: RI
Lab Sample ID: 240-8931-7

Date Collected: 03/01/12 17:55
Matrix: Water
Date Received: 03/03/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			35871	03/05/12 16:00	LM	TAL NC
Total/NA	Analysis	1631E		1	36537	03/09/12 15:18	CJ	TAL NC

Client Sample ID: 608 WWT FB
Lab Sample ID: 240-8931-8

Date Collected: 03/02/12 08:20
Matrix: Water
Date Received: 03/03/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			35871	03/05/12 16:00	LM	TAL NC
Total/NA	Analysis	1631E		1	36537	03/09/12 17:26	CJ	TAL NC

Client Sample ID: 608 WWT
Lab Sample ID: 240-8931-9

Date Collected: 03/02/12 08:25
Matrix: Water
Date Received: 03/03/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			35871	03/05/12 16:00	LM	TAL NC
Total/NA	Analysis	1631E		20	36537	03/09/12 15:27	CJ	TAL NC

Client Sample ID: 608 WWT DUP
Lab Sample ID: 240-8931-10

Date Collected: 03/02/12 08:30
Matrix: Water
Date Received: 03/03/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			35871	03/05/12 16:00	LM	TAL NC
Total/NA	Analysis	1631E		20	36537	03/09/12 15:35	CJ	TAL NC

Client Sample ID: 608 WWT DISS
Lab Sample ID: 240-8931-11

Date Collected: 03/02/12 08:35
Matrix: Water
Date Received: 03/03/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	1631E			36108	03/07/12 13:00	CJ	TAL NC
Dissolved	Analysis	1631E		1	36344	03/08/12 15:43	CJ	TAL NC

Client Sample ID: OUTFALL 002 FB
Lab Sample ID: 240-8931-12

Date Collected: 03/02/12 08:50
Matrix: Water
Date Received: 03/03/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			35871	03/05/12 16:00	LM	TAL NC
Total/NA	Analysis	1631E		1	36537	03/09/12 17:35	CJ	TAL NC

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Client Sample ID: OUTFALL 002

Lab Sample ID: 240-8931-13

Date Collected: 03/02/12 08:55

Matrix: Water

Date Received: 03/03/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			35871	03/05/12 16:00	LM	TAL NC
Total/NA	Analysis	1631E		1	36537	03/09/12 15:44	CJ	TAL NC

Client Sample ID: OUTFALL 002 DUP

Lab Sample ID: 240-8931-14

Date Collected: 03/02/12 09:00

Matrix: Water

Date Received: 03/03/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			35871	03/05/12 16:00	LM	TAL NC
Total/NA	Analysis	1631E		1	36537	03/09/12 15:52	CJ	TAL NC

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-8931-15

Date Collected: 03/02/12 00:00

Matrix: Water

Date Received: 03/03/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			35871	03/05/12 16:00	LM	TAL NC
Total/NA	Analysis	1631E		1	36537	03/09/12 17:43	CJ	TAL NC

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Duke Energy Corporation
Project/Site: Miami Fort LL Hg 2012 - J12030189

TestAmerica Job ID: 240-8931-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	State Program	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	L-A-B	DoD ELAP		L2315
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio VAP	State Program	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	Federal		P330-11-00328
TestAmerica North Canton	Virginia	NELAC Secondary AB	3	460175
TestAmerica North Canton	Washington	State Program	10	C971
TestAmerica North Canton	West Virginia DEP	State Program	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: DUKE ENERGY	Client Project Manager: M. WAGNER (URS)	Site Contact: T. THOMAS	Lab Contact:	COC No:
Address: MIAMI FORT STATION	Telephone: 513-651-3440	Telephone: (513)	Telephone:	1 of 2 COCs
City/State/Zip: N. BEND, OH.	Email: mike.wagner@urs.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: (513) 467-4900		TAT if different from below ____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day (Unpreserved)		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: MIAMI FORT LLHg 2012	Method of Shipment/Carrier:			Job/SDG No.:
Project Number: 14950516	Shipping/Tracking No:			
PO#				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	Zinc Acetate / NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite C / Grab G	Analyses: LLHg	TOTAL_Hg	Sample Specific Notes / Special Instructions:
601 (7) WWT *	3-1-12	1730		X								4			N	G	X		
601 (7) WWT TOT		1733		X					1									X	
601 (7) WWT TOT DUP		1735		X					1									X	
601 (8) WWT *		1740		X								4					X		
601 (8) WWT TOT		1745		X					1									X	
RI FB		1750		X								2					X		
~~QWRTF~~ R.I		1755		X								4					X		
608 WWT FB	3-2-12	0820		X								1					X		
608 WWT		0825		X								4					X		
608 WWT DUP		0830		X								4					X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:
* POSSIBLY ELEVATED LLHg

	Company	Date/Time		Company	Date/Time
Relinquished by:	URS 03/02	3/2/12 / 1200	Received by:	TestAmerica	3/3/12 / 12.00
Relinquished by:	TestAmerica	3-2-12 / 13:05	Received by:		
Relinquished by:			Received in Laboratory by:	TA	3/3/12 0910

TAL-0018 (1008)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: ____________

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other ____________

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: DUKE ENERGY	Client Project Manager: M. WAGNER - URS	Site Contact: T. THOMAS	Lab Contact:
Address: MIAMI FORT STATION	Telephone: ~~513~~ 513 651-3440	Telephone: (513) 467-4950	Telephone:
City/State/Zip: See Page 1	Email: See Page		
Phone:			
Project Name:	Method of Shipment/Carrier:		
Project Number: 14950516	Shipping/Tracking No:		
P O #			

COC No: 2 of 2 COCs

Analysis Turnaround Time (in BUS days)

TAT if different from below: STANDARD

☐ 3 weeks
☐ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

For lab use only: Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ Job/SDG No:

Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite=C / Grab=G	Analyses: LL Hg									Sample Specific Notes / Special Instructions:
606 WWT DISS	3-2-12	0835		X									4		N	G	X									
OUTFALL 002 FB	↓	0850		X									2		↓	↓	X									
OUTFALL 002	↓	0855		X									4		↓	↓	X									
OUTFALL 002 Dup	↓	0900		X									4		↓	↓	X									
TRIP BLANK		—		X									2		↓	–	X									

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For ______ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	URS	3/2/12 / 1200	[signature]	Test America	3/2/12 / 12:00
Relinquished by: [signature]	Test America	3-2-12 / 13:05	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	TA	3/3/12 0910

TAL-0018 (1008)

Analytical Laboratory Request Form (ARF)

(1) Complete all yellow sections of this form. Move through by striking the "TAB" key.	
(2) Save the file & e-mail to:	labcustomer@duke-energy.com
Questions / Problems Call:	704-875-5245

Customer Information

Name	Office Phone	Cell Phone
Mike Wagner	513 651 3440	NA
Fax	**e-Mail Address**	
513 651 3452	mike_wagner@urscorp.com	

Accounting Fields

*** Only complete if specific charging to capital or other special projects is needed. Include field type and specific field entry. ***	Field Type	Specific Field

Sampling Information

Sampling Personnel / Contractor	Scheduled Sampling Date	Date Sample Kit Needed
URS Field Staff Geologist / URS	3/1/2012	2/17/2012

Shipping Address for Kit

Name	Phone	Mail Code
Mike Wagner	513 651 3440	NA
Street Address - street address and town needed	**State**	**Zip Code**
36 East 7th Street suite 2300, Cincinnati, Ohio 45202	Ohio	45202

Reporting

Report Due Date	Additional Reports - .pdf file w/ Basic QC and EDD (spreadsheet) is Standard	
3/26/2012	Standard	
Report To (e-Mail Address 1)	**Report To (e-Mail Address 2)**	**Report to (e-Mail Address 3)**
mike_wagner@urscorp.com	tara.thomas@duke-energy.com	sue.wallace@duke-energy.com

Project Specifics

Project Name		Program Type
Miami Fort LL Hg 2012		NPDES Monitoring
Site, Location or Station	**State**	**Approximate Number of Days Sampling is Scheduled**
Miami Fort Station, Hamilton Co.	Ohio	2

Notes, Special Requests, Required Contract Lab to use, etc. **(LIMS Job Number-Duke Lab Provides)**

Sample kit to be issued from TestAmerica - North Canton, Ohio (contact - Denise Pohl) Note - Data report (prepared by URS) due to Miami Fort Station by end of month of sampling. March 2012 Event

Bottles	Matrix	Variables, Methods
8 (four vial package)	water	(seven locations) LL Hg (collected by method 1669, analysis by Method 1631)
		(one location) Dissolved LL Hg (0.45 micron, filtered at laboratory)(collected by method 1669, analysis by Method 1631)
3 field blanks	water	LL Hg (collected by method 1669, analysis by Method 1631)
1 trip blank	water	LL Hg (Method 1631)
3	water	Total Hg (Method 7470A)

Jan 09

TestAmerica North Canton Sample Receipt Form/Narrative **Login # : 8931**

Client Duke Energy Site Name Miami Fort By: _____

Cooler Received on 3/3/12 Opened on 3.5.12 (Signature)

FedEx: 1st Grd Exp UPS FAS (Stetson) Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # 5018 Foam Box Client Cooler Multiple on Back Other _____

Packing material used: ~~Bubble Wrap~~ (Foam) Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water ~~None~~

1. Cooler temperature upon receipt

IR GUN# 1	(CF -2°C)	Sample Temp 11.7 °C	Corrected Temp 9.7 °C	
IR GUN# 4G	(CF -1°C)	Sample Temp _____ °C	Corrected Temp _____ °C	
IR GUN# 5G	(CF -1°C)	Sample Temp _____ °C	Corrected Temp _____ °C	
IR GUN# 6Y	(CF -2°C)	Sample Temp _____ °C	Corrected Temp _____ °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____	Yes (No)	
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes No (NA)	
-Were custody seals on the bottle(s)?	Yes (No)	
3. Shippers' packing slip attached to the cooler(s)?	(Yes) No	
4. Did custody papers accompany the sample(s)?	(Yes) No	
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6. Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
7. Could all bottle labels be reconciled with the COC?	(Yes) No	
8. Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
9. Sufficient quantity received to perform indicated analyses?	(Yes) No	
10. Were sample(s) at the correct pH upon receipt?	Yes (No) NA	
11. Were VOAs on the COC?	Yes (No)	
12. Were air bubbles >6 mm in any VOA vials?	Yes No (NA)	
13. Was a trip blank present in the cooler(s)?	Yes (No)	

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

high temp - OK - LLHg + total Hg

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) 1-4 260 ALL 3 samples were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 110410-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 - NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? 1010

Client ID	pH	Date	Initials
(7) WWTOT	<2	3-5-12	LP
2 DUP	<2	"	"
(8) WWTOT	<2	"	"

Cooler #	Temp. °C	IR #	Coolant

Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 240-8931-1

Login Number: 8931

List Source: TestAmerica North Canton

List Number: 1

Creator: Sutek, Nick

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	9.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	